

BURLEY RANGER DISTRICT  
USDA - FS - Sawtooth National Forest

M/003/025

To: Lynn Kunzler  
Fax #: 801 359 3940  
Date: 1/31/96  
From: G. Strother

SUBJECT Lynn Springs  
MESSAGE Here is my first draft  
Rec Plan/Bond call for Lynn Spr

Don't know if this all went  
Thru. Here goes AGAIN

Page 1 of 5 pages

If you do not receive all of the pages, please call Gordon, at (208) 678-0430.

BURLEY RANGER DISTRICT  
ROUTE # 3, 3650 OVERLAND AVE.  
BURLEY, IDAHO 83318-3242

Telephone: (208) 678-0430  
FAX Number: (208) 678-0439

+ ESTIMATE FOR  
USFS LANDS ONLY  
+ ENTIRE ROAD FROM  
MINE TO GATE RECLAIMED

- 1/2 ACRE BLM @ QUARRY  
- 5 ACRE MINE SITE  
ON BLM

- DOGM ROAD RECLAIMED  
WOULD BE SAME AS  
USFS, ALTHOUGH  
DOGM ESTIMATE  
OF ACREAGE  
DID NOT INCLUDE



Reclamation Plan  
and  
Bond Calculation

Lynn Springs Quarry

William and Preston Bown

1996 Plan of Operation

Sawtooth National Forest  
Burley Ranger District  
Box Elder County, Utah

Prepared by

Gordon Struthers, Minerals Management Specialist

Reviewed by

William Bown, Operator

Approver by

Donald E. Peterson, District Ranger

Reclamation Plan  
Lynn Springs Quarry

Proposal

The Bowns, William and Preston, have submitted a Plan of Operation (POO) with the Burley Ranger District, Sawtooth National Forest to operate an Oakley stone quarry. The quarry is in sections 20 and 29, T14N, R16W SLCM.

An Environmental Assessment (EA) and Decision Notice (DN) was prepared for this project in May 1996. Mitigation measures for quarry reclamation were addressed. This plan will outline the reclamation practices and measures that will be followed for final reclamation of the disturbed areas within the quarry, processing areas, camps, and access roads. This plan is a part of the approved POO.

DESIRED END USE OF THE QUARRY PROJECT AREA

In order to return the project area back to a suitable use consistent with the Sawtooth National Forest Land and Resource Management Plan the following reclamation is to be accomplished:

A. Road construction and maintenance measures:

Interim maintenance will be required on all roads used in the quarry operations. Roads will be water barred with driveable rolling grade dips where ever designate by the Forest Officer in charge. Upon closure of the quarry, roads used by the project will be outsloped and additional water bars will be put in.

Maintenance of new and existing roads will be to Forest Service standards.

Clearing for road construction will normally be limited to 14 feet.

B. Reclamation Measures:

Topsoil from disturbed areas will be stockpiled where possible and later spread back and reseeded upon completion and reclamation of a quarry areas or road no longer needed.

Areas disturbed by quarry operations will be revegetated to 80% like native vegetation maintained for two years over 90% of the area. Disturbed area will be reseeded at the end of the first field season following other reclamation.

The seed mix to be used for reseeding will be as follows:

Common Name	Species Name	lb/ac Broadcast rate
Thickspike wheatgrass	Agropron dasystachum	3.0
Bluebunch wheatgrass	Agropron spicatum	3.0
Intermediate wheatgrass	Agropron intermedium	1.5
Piute orchard grass	Dactylis glomerata	0.7

Basin wildrye	Elymus cinereus	1.5
Ladac alfalfa	Medicago sativa	0.7
Rocky mtn penstemon	Penstemon strictus	0.7
Small burnet	Sanguisorba minor	2.0
Black sagebrush	Artemisia nova	0.2
Wyoming big sage	Artemisia tridentata	0.2
Servicberry	Amelanchier alnifolia	1.5
Forage kochia	Kochia prostrata	0.7
Bitterbrush	Purshia tridentata	1.5

Seed mix will be weed free and monitoring will required the first year following seeding for noxious weeds.

Forest Road (FR) 021 will remain open after quarry closure. The portion of FR 021 used by the quarry operations will be reshaped, outsloped, drained with driveable grade dips and reseeded with the approved seed mix.

All waste generated by the quarry opertion and or work camp(s) will be removed to an approved land fill.

# Reclamation Cost Estimates/Bonding Calculations

## Roads:

Final maintence of FR 021 to the County road (1.5 miles)

## Cost estimate

8 hr. road grader at \$72.55/ hr.....	\$580.00
mobilization.....	\$250.00
Seeding.....	\$500.00

TOTAL \$1330.00

Closing and draining of quarry access roads (1.5 miles)

## Cost estimate

16 hr road grader at 72.55/ hr.....	\$1160.00
mobilization.....	\$0.00
Seeding.....	\$500.00

TOTAL \$1660.00

## Quarry reclamation

## Cost estimate

16 hr track hoe at \$107.16/ hr.....	\$1715.00
mobilization.....	\$500.00
seeding.....	\$500.00

TOTAL \$2715.00

## Other Reclamation Costs

Gate removal.....	\$350.00
8 hr dump truck (waste and gate removal)at \$33.29/ hr.....	\$266.00
60 hr crew pickup at \$10.11/ hr.....	\$607.00

60 hr labor at \$18.62/ hr.....\$1117.00  
60 hr labor at \$18.62/ hr.....\$1117.00

TOTAL \$2234.00

Project mangement and direction.....\$1773.00  
Project overhead (contracting).....\$1000.00

TOTAL \$2773.00

Project Estimated total:\$10,712.00  
round to for Bonding:\$10,700.00

NOTE:

"Cost Estimating Guide For Road Construction", Region 4, Division of  
Engineering, USDA, Forest Service 1995 used for above cost estimates.

Conditions of Bond Release

Partial Release:

Upon completion of the project, portions of the bond can be released when  
earthwork (reshaping, ripping etc) has been and areas are stabilized and  
reseeded. The amount of the bond covering these activities may be released and  
only the portion covering revegetation will be held.

Long Term Shutdown (more than one year)

The operator will notify the Burley District Ranger and long term reclamation  
measures will be agreed upon. The total bond will be until final reclamation is  
completed and accepted by the forest Service.

Final Bond Release

Total release of the bond will only be approved when all disturbed areas have  
been reshaped, aduated drainage has been provided, all structures and  
equipment have been removed, revegetation has been achieved to an 80% standard  
of native like ground cover and has been maintained on 90% of the reclaimed  
area for two years.